

UNITED STATES GOVERNMENT

# Memorandum

TO : Director of Communications

OCE M75-448  
DATE: 8 December 1975

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report -- November 1975

1. The OC Equipment Board determined and the D/CO concurred that the Standard Communications Equipment List (SCEL) had outlived its usefulness. Additionally, it was determined that the Memorandum of Understanding between OL and OC, dated October 1964, which outlined SCEL procedures is no longer a viable document. SCEL procedures are no longer acceptable as sole source justification.

2. November was a very active month for TECHREQS with a total of 475. The TECHREQ Terminal reached an all-time high the week of 17 November with a total of 146 TECHREQS of which 124 were received and 22 sent.

25X1A6a 3. ESD representatives attended a demonstration by Creative Marketing Associates on a Datatest P.C. Board Tester. [REDACTED] is interested in this unit for supplementing the current ATE "FIXIT." This Datatest unit utilizes a Transition Count Method of testing which operationally tests P.C. Boards rather than the static test, which is the current method used by "FIXIT."

25X1A6a 4. The [REDACTED] is installed and operating up through Test Loop Two. All that remains to be installed is the Antenna System.

25X1A5a1 25X1A5a1 5. The first CC-59 Carrying Case delivered by [REDACTED] passed acceptance test. The production release for 24 additional CC-59's was authorized. Deliveries of BS-59C Battery Supplies, BC-59B Battery Chargers, and RP-59A Power Supplies have been delayed approximately 30 days due to non-receipt of required parts from [REDACTED] and [REDACTED] 25X1A5a1

6. As a result of CED/COD agreement on the model and design of a prototype AL-16 remote alarm unit, action was initiated to produce six STM's by May 1976. It is hoped that production quantities can be established no later than January 1976 in order to procure the required parts and materials.

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- 25X1A5a1 7. Twenty [REDACTED] printers (replacement for  
25X1A5a1 the [REDACTED] were received this month and will be  
placed into stock following modifications to permit inter-  
face with the DC-1 decoder. Also received this month were  
36 LS-3's from the second production run of 50. Eighteen  
are being requisitioned for immediate placement into the  
25X1A [REDACTED] Reserve.
8. CED responded to 16 Statement of Requirements  
(SOR's) and four cable requests this month. A total of  
ten systems and 41 ancillary items were shipped to the  
field.
- 25X1A5a1 9. Two prototype CK-42 Coder/Keyers were delivered by  
25X1A5a1 [REDACTED], on 27 November. In addition, two CY-5's  
25X1A5a1 were received from [REDACTED] and are being TEMPEST tested at  
[REDACTED].
10. CED personnel completed the introduction of the  
SV-8 system to all Area Headquarters by visiting [REDACTED] during  
this period. 25X1A
- 25X1A 11. Representatives of the DDO Information Services  
25X1A Group were given a briefing by Systems Branch personnel on  
25X1A5a1 the [REDACTED]. They expressed their interest in receiving  
an [REDACTED] prototype for operational evaluation. A service  
contract was negotiated with [REDACTED] Corporation to  
25X1A5a1 modify the [REDACTED] to meet our specified requirements. The  
machine was picked up on 25 November. The contractor stated  
that the modification should be completed within 45 to 60  
days. 25X1A5a1
12. Six graduates of the first in-house MAX programming  
course presented by OC reported to Software Support Section,  
OC-E, on 3 November. The course was conducted at [REDACTED] in  
25X1A9a September and October by Mr. [REDACTED] of the [REDACTED]  
Programming Staff. One individual was assigned to DATEX on  
4 November. The others will receive additional training in  
MAX, ARS, AFT, and the Tandem Switch Systems. 25X1A6a  
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13. MAX system 300-baud TSU circuit tests were completed  
in November. The software was successfully tested 5 November.  
On 13 November, with MAX in pseudo on-line mode, one circuit  
was air-looped via satellite and five local-looped to provide  
a test bed for system load. No degradation of system operation  
was noted with test traffic in progress on all six of the test  
circuits.

14. The CDS contractor informally notified us that the allowable CDS core utilization has been exceeded by eight to nine percent. This information was discussed with OL in a review of the CDS sizing problem; and, as a result, OL is requesting a system performance analysis to determine how the system stacks up against specified requirements.

25X1A5a1 15. [REDACTED] CDS programmers were on-site during the month to test the machine analysis software using live traffic from the MAX System. After overcoming some problems in the network controller software, tests with live traffic were conducted on the analysis software using actual profiles and dictionaries.

25X1A9a 16. [REDACTED] visited the [REDACTED] in Sunnyvale, California, to receive training in installation, operation, and maintenance of HF/time-diversity modems. 25X1A5a1  
25X1A5a1 [REDACTED] prepared a quotation for a spare parts kit for the equipment. In addition, possibilities for designing a 300 BPS version of the modem were considered.

17. The ARS-IV installation was accomplished in the first two weeks of the month. Acceptance testing, delayed due to hardware problems, was still under way at the end of the month.

25X1A5a1 18. The technical and financial review of the [REDACTED] proposal for Phases II and III of the ITS-W program was completed on 4 November 1975. Notification of an acceptable proposal was sent to the Chairman, [REDACTED] with a request for program approval. Funding for ITS-W still is pending. [REDACTED] proposals are valid only until 16 December 1975. 25X1A5a1 25X1A

19. ORD has requested that OC-E provide a representative for their Bus Communications Working Group which they are establishing to coordinate development of bus communications technical concepts. [REDACTED] has been nominated to serve on this working group. 25X1A9a

25X1A 20. Representatives from OC and OL met with representatives of [REDACTED] in both Dallas and Washington during this period. 25X1A These meetings resulted in [REDACTED] being granted a delay of approximately 75 days in exchange of certain considerations. 25X1A These include the [REDACTED] assumption of certain training charges; the improvement in program management, i.e., document milestones and weekly report on these milestones; the addition of a key personnel clause to the contract; and the inclusion of a cost-liquidated damage clause for each day of slippage beyond the 75 days granted.

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[REDACTED]

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22. The first field installation of a [REDACTED] shielded enclosure was completed [REDACTED],

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23. The [REDACTED] satellite has been stable and 100 percent operationally available for the entire month of November. The last spin-up outage was logged on 28 October.

24. The "first article" LNR paramp was successfully tested in an SC-1 terminal at [REDACTED]. The LNR paramp, which replaces the trouble-prone Comtech paramp in the ten SC-1 terminals now in production, will provide a G/T of the SC-1A to 18 dB.

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25. The Frederick Model 1300A Buffer has been successfully operated as an asynchronous-to-isochronous converter on the [REDACTED] circuit. A printed circuit card is being produced by CED/Lab to allow the Frederick buffer to perform full duplex level conversion in addition to speed buffering in one direction.

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26. Modifications to the T-20 multiplexer and the Codex modem on the OPMUX circuit have been successfully evaluated. The system now operates on an automatic traffic bust and requeue protocol for any [REDACTED] circuit perturbation. The majority of sitreps received from [REDACTED] tributaries report very satisfactory system performance. In view of this improvement, [REDACTED] was authorized to activate Bravo channel operations into the unclassified wire room.

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[REDACTED]

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